

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Canceled).

Claim 2 (Currently Amended): The mobile station according to Claim [[1]] 15, wherein the cell selector ~~selecting means~~ changes a cell reselection condition or priority for selection between cell types, according to the cell type of the serving cell determined by the cell class determiner ~~determining means~~.

Claim 3 (Currently Amended): The mobile station according to Claim 2, wherein the cell selector ~~selecting means~~ changes the cell reselection condition, according to the cell type of the neighboring cell determined by the cell class determiner ~~determining means~~.

Claim 4 (Currently Amended): The mobile station according to Claim [[1]] 15, further comprising:

~~storing means for storing~~ a memory configured to store the cell types in relation with cell classes;

~~counting means for counting~~ a counter configured to count the number of reselections between cells of different cell classes; and

~~changing means for changing~~ a controller that changes the relation between the cell types and the cell classes in the ~~storing means~~ memory to another when the number of reselections counted by the ~~counting means~~ counter exceeds a predetermined value.

Claim 5 (Currently Amended): A mobile communication system comprising:  
a mobile station comprising

~~measuring means for measuring~~ a measuring device configured to measure received levels of a serving cell and each neighboring cell thereto,

~~determining means for determining~~ a cell class determiner configured to determine cell types of the current and neighboring cells, and

~~selecting means for selecting~~ a cell selector configured to select a cell as a reselection target, based on the received levels measured by the ~~measuring means~~ measuring device and the cell types determined by the ~~determining means~~ cell class determiner; and

a base station ~~for notifying~~ configured to notify the mobile station of identification information enabling identification of respective cell types of the base station ~~a cell type of its own cell or identification of cell types of its own cell~~ and each neighboring cell thereto.

Claim 6 (Currently Amended): A cell selection method comprising:

a measuring step wherein ~~measuring means of~~ a mobile station measures received levels of a serving cell and each neighboring cell thereto;

a determining step wherein ~~determining means of~~ the mobile station determines cell types of the current and neighboring cells; and

a selecting step wherein ~~selecting means of~~ the mobile station selects a cell as a reselection target, based on the received levels measured ~~[[by]]~~ in the measuring ~~means~~ step and the cell types determined ~~[[by]]~~ in the determining ~~means~~ step.

said determining step including a step of determining the cell types based on identification information transmitted from the serving cell.

Claim 7 (Currently Amended): The cell selection method according to Claim 6, further comprising:

~~a counting step wherein counting means counts~~ the number of reselections between cells of different cell classes; and

~~a changing step wherein changing means changes~~ a relation between the cell types and the cell classes in ~~storing means~~ a memory to another when the number of reselections counted by the counting ~~means~~ step exceeds a predetermined value.

Claim 8 (Currently Amended): The cell selection method according to Claim 7, wherein in the changing step ~~the changing means changes~~ the relation between the cell types and the cell classes stored in the storing means memory is changed to another when the number of reselections exceeds the predetermined value within a predetermined time from a point of a start of counting the number of reselections.

Claim 9 (Currently Amended): The cell selection method according to Claim 7, wherein in the changing step, on the occasion of changing the relation between the cell types and the cell classes, the changing ~~means~~ step brings the relation back to that before the changing step after a lapse of a predetermined time from a point of the changing.

Claim 10 (Currently Amended): The mobile station according to Claim ~~[[1]]~~ 15, wherein the cell selector chooses ~~further comprising choosing means for choosing~~ neighboring cells for each of which a received level is measured,

wherein the measuring ~~means~~ device measures received levels of neighboring cells ~~after chosen by the cell selector performs~~ the choosing ~~means~~.

Claim 11 (Currently Amended): A mobile station comprising:

~~storing means for storing~~ a memory configured to store information about a radio channel;

~~a choosing means for choosing~~ mechanism configured to choose neighboring cells for each of which a received level is measured;

~~measuring means for measuring~~ a measuring device configured to measure received levels of a serving cell and each neighboring cell after chosen by the choosing ~~means~~ mechanism, out of the neighboring cells to the serving cell;

~~determining means for determining~~ a cell class determiner configured to determine cell types of the current and chosen neighboring cells; and

~~selecting means for selecting~~ a cell selector configured to select a cell as a reselection target, based on the received levels measured by the measuring ~~means~~ device and the cell types determined by the ~~determining means~~ cell class determiner,

said cell class determiner configured to determine the cell types based on identification information transmitted from the serving cell.

Claim 12 (Original): The mobile station according to Claim 11, wherein a cell reselection condition includes at least one of the following reselection conditions:

a reselection condition that the target cell is determined to be a neighboring cell with the highest received level out of neighboring cells satisfying a predetermined received level when the received level of the serving cell becomes below a predetermined first threshold;

a reselection condition that the target cell is determined to be a neighboring cell a difference of the received level of which from that of the serving cell exceeds a predetermined hysteresis and which has a highest received level;

a reselection condition that the target cell is determined to be a neighboring cell which keeps the received level high for a predetermined time, regardless of the received level of the serving cell; and

a reselection condition that, when a variation per unit time of the received level of the serving cell exceeds a predetermined second threshold, the target cell is determined to be a neighboring cell with the highest received level out of neighboring cells the received level of each of which exceeds a predetermined third threshold.

Claim 13 (Currently Amended): A cell selection method comprising:

~~a storing step wherein~~ storing means ~~[[of]]~~ at a mobile station ~~stores~~ information about a radio channel;

~~a choosing step wherein~~ choosing means ~~of~~ at the mobile station ~~chooses~~ neighboring cells for each of which a received level is measured;

~~a measuring step wherein~~ measuring means ~~of~~ at the mobile station ~~measures~~ received levels of a serving cell and each neighboring cell after chosen ~~[[by]]~~ in the choosing ~~means~~ step, out of neighboring cells to the serving cell;

~~a determining step wherein~~ determining means ~~of~~ at the mobile station ~~determines~~ cell types of the current and chosen neighboring cells; and

~~a selecting step wherein~~ selecting means ~~of~~ at the mobile station ~~selects~~ a cell as a reselection target, based on the received levels measured ~~[[by]]~~ in the measuring ~~means~~ step and the cell types determined ~~[[by]]~~ in the determining ~~means~~ step,

said determining step determines the cell types based on identification information transmitted from the serving cell.

Claim 14 (Original): The cell selection method according to Claim 13, wherein a cell reselection condition includes at least one of the following reselection conditions:

a reselection condition that the target cell is determined to be a neighboring cell with the highest received level out of neighboring cells satisfying a predetermined received level when the received level of the serving cell becomes below a predetermined first threshold;

a reselection condition that the target cell is determined to be a neighboring cell a difference of the received level of which from that of the serving cell exceeds a predetermined hysteresis and which has a highest received level;

a reselection condition that the target cell is determined to be a neighboring cell which keeps the received level high for a predetermined time, regardless of the received level of the serving cell; and

a reselection condition that, when a variation per unit time of the received level of the serving cell exceeds a predetermined second threshold, the target cell is determined to be a neighboring cell with the highest received level out of neighboring cells the received level of each of which exceeds a predetermined third threshold.

Claim 15 (New): A mobile station comprising:

a measuring device configured to measure received signal levels of a serving cell and respective neighboring cells thereto;

a cell class determiner that is configured to determine respective cell types based on identification information transmitted from the serving cell; and

a cell selector configured to select a cell as a reselection target based on the signal levels measured by the measuring device and the cell types determined by the cell class determiner.